

ABSTRACT OF THE DISCLOSURE

Disclosed is a nonaqueous electrolyte secondary battery, comprising a nonaqueous electrolyte containing ethylene carbonate and  $\gamma$ -butyrolactone, wherein, when a charge-discharge cycle test satisfying conditions (A) to (D) given below is performed under an environment of 45°C, the capacity retention rate at 100-th charge-discharge cycle is at least 85% based on the discharge capacity in the first charge-discharge cycle, (A) for the charging, the constant current-constant voltage charging to 4.2V is performed for 3 hours under a current of 1C, (B) the discharging is performed to 3V under a current of 1C, (C) after the charging, the secondary battery is left to stand for 10 minutes, followed by performing the discharging, and (D) after the discharging, the secondary battery is left to stand for 10 minutes, followed by performing the charging.

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